

# Effect on engineer bridging equipment

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The purpose of Project 3.22, Operation UPSHOT-KNOTHOLE, was to indicate the vulnerability of Army prefabricated fixed bridging to atomic blast and to determine means to reduce the vulnerability. To accomplish this, two 100-ft Bailey bridge spans were erected such that one was exposed to Shot 9 and both were exposed to Shot 10 of the test series; and two single bay sections of bridging were erected to afford a comparison between Bailey and T6 bridging. The presence of a precursor wave and high dynamic pressures in the region of interest for Shot 10 severely limited the value of the results of that part of the experiment. Results indicate that an anchor cable would be the best means of limiting the response of such a bridge.

< Collapse

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Rainey, C T; Neel, J W; Mork, H M; +1 more

Operation upshot-knothole, Nevada proving grounds, March-June 1953. Report to the test director. Alpha and transit time measurement. Projects 10.1 and 10.2 (sanitized version)

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